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A common concern among field staff is the lack of information concerning the type, distribution, and extent of invasive species at their facilities. Early detection and prompt control of invasive species are needed to keep management costs at a minimum and to assist in planning and establishing management priorities. Monitoring and inventory information will provide managers with a clearer perception of their weeds and other invasive species, the weeds' location, and the effectiveness of their invasive species management programs. This knowledge will enable focused planning for more efficient allocation of resources and more effective, economical control programs.

What were the project objectives:

- Develop and combine needs for the management of invasive species with current land-based survey and information gathering techniques and with the application of new technologies in computer mapping (such as GPS/GIS and other remote sensing methods).
- Modify and adapt existing survey methods to Reclamation facility formats.
- Conduct surveys in cooperation with various partners to assess both the distribution and extent of invasive species in Reclamation facilities, and the effectiveness of management activities.
- Employ database development and management systems for organizing, analyzing, and utilizing information developed in this activity.
- Report findings to regional and area pest managers via workshops and technical reports.
- This year was spent investigating pertinent literature and how other agencies are accomplishing noxious species mapping. These methods have been field tested, and an interim report documenting the methods and their results will be available in January 2000.
- Several test sites have been identified, and work has begun at Pueblo Dam State Park and the Winchester Wasteway in Washington.
- 9- by 9-inch color imagery of both test sites has been acquired.
- Ecological research and investigation staff have been trained in photo

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interpretation methods to identify various vegetation types so changes in acres can be tracked though time.

Bureau of Reclamation - Ephrata Field Office
Bureau of Reclamation - Eastern Colorado Area Office
Bureau of Reclamation - Pueblo Field Office
Bureau of Reclamation - Office of Policy
Bureau of Reclamation - Remote Sensing Group
Colorado Division of Wildlife

Mapping Noxious Weeds at Pueblo Dam State Park: A Noxious Weed Mapping Primer. Draft Report.